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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO!	· CONFIRMATION NO.
09/966,100	10/01/2001	Ichiro Imaizumi	P67161US0	4772
JACOBSON, PRICE, HOLMAN & STERN PROFESSIONAL LIMITED LIABILITY COMPANY 400 Seventh Street, N.W. Washington, DC 20004			EXAMINER	
			GHEBRETINSAE, TEMESGHEN	
			ART UNIT	PAPER NUMBER
			2631	7
			DATE MAILED: 07/12/20	004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
•	09/966,100	IMAIZUMI, ICHIRO			
Office Action Summary	Examiner	Art Unit			
	Temesghen Ghebretinsae	2631			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	_•	•			
2a) This action is FINAL . 2b) ⊠ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-3,5-7,9-11 and 13-15 is/are allowed. 6) Claim(s) 4,8.12 and 16-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on <u>01 October 2001</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5 & 6.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

- 1. Application number (checked for accuracy, including series code and serial no.).
- 2. Group art unit number (copied from most recent Office communication).
- 3. Filing date.
- 4. Name of the examiner who prepared the most recent Office action.
- 5. Title of invention.
- 6. Confirmation number (See MPEP § 503).

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The references listed in the PTO-1449 filed 12/31/01 and 4/26/04 have been considered by the examiner.

Claim Rejections - 35 USC § 112

Claims 4,8,12,16-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 4, line 12, "said plurality of received signals" lack clear antecedent basis.

In claim 8, "the input signal register" lack clear antecedent basis. In claim 8, "the spread code register" and "said spread code register" lack clear antecedent basis.

In claims 1.7,18,19,20, "the multiplier section", "the specified number of multipliers" and "the partial correlation outputs" lack clear antecedent basis.

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Claims 12,16 are rejected as being dependent on the rejected base claim.

Allowable Subject Matter

Claims 1-3,5-7,9-11,13-15 are allowed.

Claims 4,8,12,16-20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fail to anticipate or render obvious the claimed correlation circuit for spread spectrum communication for obtaining a correlation output from a spread spectrum received signal comprising: a) a controller for controlling the transfer speed of the shift of one sample in the input signal register in order to hold a sufficient time for completing calculation of a sum of products with respect to all plurality of users in the sum of products calculator, when the plurality of users more than a specified number of users exists in the same phase of the input signal from the memory; b) subsequently controlling and setting the transfer speed to be higher than the specified speed before compensating for delay time within one symbol, when the users less than the specified number of users exist in the same phase; c) and controlling and selecting the spread code to be outputted to the sum of products calculator in accordance with the number of users in the same phase, in combination with an A/D converter; a memory for storing the output from the A/D converter; an input signal register, having a variable transfer speed of a shift; a spread code register; and a sum products calculator for multiplying and adding the input signal outputted from the input signal register and the spread code outputted from the spread code register at a specified number of times Art Unit: 2631

the sampling speed in the manner and complexity explicitly recited in the claimed in invention.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Imaizumi et al (6,678,313; 6,647,056) are cited to shoe a correlation circuit for spread spectrum communication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temesghen Ghebretinsae whose telephone number is 703-305-4777. The examiner can normally be reached on Monday-Friday from 8 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammed Ghayour, can be reached on 703-306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TEMESCHEN CHEBRETINSAE PRIMARY EXAMINER

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